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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/633,462 08/01/2003		08/01/2003	Stephen Michael Lord		2114
32092	7590	01/30/2006		EXAMINER	
STEPHEN I			LAWRENCE JR, FRANK M		
109 PEPPERTREE LANE ENCINITAS, CA 92024				ART UNIT	PAPER NUMBER
·				1724	

DATE MAILED: 01/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s) ₩	
		10/633,462	LORD, STEPHEN MICHAEL	
	Office Action Summary	Examiner	Art Unit	
		Frank M. Lawrence	1724	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the o	orrespondence address	
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Status				
1)□ 2a)□ 3)□		action is non-final. nce except for formal matters, pro		
Dispositi	ion of Claims			
5)□ 6)⊠ 7)□ 8)□ Applicati	Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-12 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are object to restriction and/or are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on 01 August 2003 is/are:	vn from consideration. r election requirement.	to by the Examiner.	
11)	Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Ex	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).	
Priority u	ınder 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage	
2) 🔲 Notic 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	(PTO-413) ate atent Application (PTO-152)	

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DETAILED ACTION

Claim Objections

1. The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Misnumbered claims 7-13 been renumbered 6-12.

2. Claims 4 and 12 are objected to because of the following informalities: Claims 4 and 12 each require a period "." so that they read as a complete sentence. Appropriate correction is required.

Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited.

4. The disclosure is objected to because of the following informalities: In line 1 of page 14, "Figure 1" should be changed to ---Figure 1a---. A brief description of Figure 1d is also required.

Appropriate correction is required.

Drawings

5. The drawings are objected to because Figures 4a-4a are not differentiated in the drawings and should be changed to 4a, 4b and 4c. Corrected drawing sheets in compliance with 37 CFR

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1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

- 6. Figures 1a-1d should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).
- 7. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "1," "2," "3" and "4" have been used to designate both elements in figures 2a and 3a.
- 8. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 11, 12, 13 and 14. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any

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amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 112

- 9. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 10. Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1 is indefinite because it claims both a method and an apparatus. To overcome this rejection, the claim should be amended to include the positively recited method steps of "providing an enclosure....", "providing a partitioning means....", "providing one or more connecting passageways....", etc. Claims 2-12 are rejected for depending from a rejected parent claim. Claim 5 should be amended to recite "wherein providing said means to store heat...." Claim 10 is also indefinite because it recites "a method and apparatus". To overcome this rejection, "and apparatus" should be deleted from the claim. Claim 5 is also unclear because of the phrase "melting or vaporizing a heat storage medium is changed".
- 11. Claim 1 recites the limitation "the heat sinks" in line 9. There is insufficient antecedent basis for this limitation in the claim. To overcome this rejection, the phrase should be changed to "the means to store heat".

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Allowable Subject Matter

12. Claim 1 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

13. Claims 2-12 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references listed on the attached PTO-892 form disclose fluid storage devices and purification systems.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank M. Lawrence whose telephone number is 571-272-1161. The examiner can normally be reached on Mon-Thurs 7:30-6:00. It appears that applicant is working *Pro se* without an attorney. Do not hesitate to contact the examiner with any questions about this office action or filing a response.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frank M. Lawrence Primary Examiner Art Unit 1724

Frank Lawrence 1-23-06

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